UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,023	04/20/2005	Kazuya Maekawa	APA-0220	6143
74384 Cheng Law Gro	7590 03/17/200 oup, PLLC	EXAMINER		
1100 17th Stree			DEXTER, CLARK F	
Suite 503 Washington, DO	C 20036		ART UNIT	PAPER NUMBER
			3724	
			MAIL DATE	DELIVERY MODE
			03/17/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/532,023	MAEKAWA ET AI	MAEKAWA ET AL.			
Office Action Summary	Examiner	Art Unit				
	Clark F. Dexter	3724				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence ac	ddress			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stated Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may and will apply and will expire SIX (6) MC tute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 23	January 2009					
· _ ·	nis action is non-final.					
<i>;</i> —		itters prosecution as to the	e merits is			
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice unde	LA parte Quayre, 1000 C.	D. 11, 400 O.G. 210.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	on.					
4a) Of the above claim(s) <u>3,4,6,7,11 and 12</u>	4a) Of the above claim(s) 3,4,6,7,11 and 12 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,2,5,8-10 and 13-15</u> is/are rejected	6)⊠ Claim(s) <u>1,2,5,8-10 and 13-15</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	l/or election requirement.					
Application Papers						
9) The specification is objected to by the Exami	ner					
•		ected to by the Evaminer				
10)⊠ The drawing(s) filed on <u>27 May 2008</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
	•		• •			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attach	ad Office Action of form P	10-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a light	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No In received in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application 				

Application/Control Number: 10/532,023 Page 2

Art Unit: 3724

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 24, 2008 has been entered.

Claim Rejections - 35 USC § 112, 2nd paragraph

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1, 2, 5, 8-10 and 13-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 11-12, the recitation "the existing scribe line" lacks positive antecedent basis.

Claim Rejections - 35 USC § 102/103

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 3724

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 2 and 13-15 are rejected under 35 U.S.C. 102(b) as anticipated by any one of Shimotoyodome, pn 6,460,258, pn 6,470,782, pn 6,478,206 (hereafter the Shimotoyodome patents) or, in the alternative, under 35 U.S.C. 103(a) as obvious over any one of the Shimotoyodome patents in view of Zumstein, pn 3,834,258.

The Shimotoyodome patents each discloses a scribe apparatus with every structural limitation of the claimed invention as best understood from the claims including:

a scribe means for generating a high-penetration vertical crack in the brittle material substrate by applying impacts of a short period to the point on the surface of the brittle material substrate; and

a travel motion control means (e.g., 50, and the moving mechanism that causes vertical movement of the scribe means) for controlling the travel motion of the scribe means, wherein said travel motion control means prevents said scribe means from traveling across the point of intersection between the scribe lines of the first and second directions (e.g., when the moving mechanism that causes vertical movement in the prior art moves the cutter away from the workpiece, the scribe means is prevented from traveling across the workpiece and thus would be prevented from moving across an existing scribe line and/or a point of intersection).

Regarding claims 13-15, these claims set forth an intended use of the prior art apparatus and the prior art apparatus is/are fully capable of performing the recited functions.

In the alternative, if it is argued that a travel motion control means pertains to or otherwise requires a computer programmed to cut a specific pattern or patterns (e.g., to cut perpendicular or transverse lines that do not intersect), more specifically one "that prevents said scribe means from traveling across the point of intersection between the scribe lines of the first and second directions," the Examiner takes Official notice that the use of such programmable computers with scribing or scoring devices is old and well known in the art and provides various well known benefits including automatic operation of the scribing or scoring device. Zumstein discloses one example that teaches using a computer for controlling a scribing/scoring device (e.g., see the paragraph bridging columns 8-9). Therefore, it would have been obvious to one having ordinary skill in the art to provide such a programmable computer in combination with

Application/Control Number: 10/532,023 Page 5

Art Unit: 3724

the scoring/scribing devices of the Shimotoyodome patents for cutting any desired pattern.

Allowable Subject Matter

6. Claims 1, 5 and 8-10 are allowable over the prior art of record.

Response to Arguments

- 7. Applicant's arguments filed December 24, 2008 have been fully considered but they are not persuasive. Regarding the prior art rejection, the Examiner respectfully disagrees with applicant's position. However, it is further noted that there is no recitation of any "programming" requirement in the claims, and thus it is respectfully submitted that the recited function(s) must be considered to be a functional recitation of intended use, particularly since the prior art is fully capable of performing the recited function(s). Still further, it is respectfully submitted that while the addition of such "programming" language in the claim may not be persuasive, it would appear to strengthen applicant's position on this issue.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clark F. Dexter whose telephone number is (571)272-4505. The examiner can normally be reached on Mondays, Tuesdays, Thursdays and Fridays.

Application/Control Number: 10/532,023 Page 6

Art Unit: 3724

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer D. Ashley can be reached on (571)272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Clark F. Dexter/
Primary Examiner, Art Unit 3724

cfd March 14, 2009